

ELECTROMAGNETIC COUPLING BASED MOTOR PLUG DETECT SYSTEM AND METHOD

ABSTRACT OF THE DISCLOSURE

A method and system of detecting the presence of an electric machine attached to a solid state drive using high speed, low energy pulses. The system and method include generating a pulse signal to a selected driven phase winding; and detecting the pulse signal for the purpose of one of a signal presence and absence thereof at a non-driven phase winding as a result of the pulse signal, wherein presence of the signal at the non-driven phase winding is indicative of the motor connected to the electronic control circuit.